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PROVISIONAL SPECIFICATION.

**“ An Improved Instrument or Appliance to be used in Drenching
Sheep and Lambs ”**

I JAMES MACKIE WHYTE of Tenbury in the County of Worcester Member of the Royal College of Veterinary Surgeons do hereby declare the nature of this invention to be as follows:—

This invention relates to an improved instrument or appliance to be used in
5 drenching sheep and lambs and has for its object to prevent any danger of
choking in drenching ewes and lambs and to allow of the process being performed
in quicker time. The instrument consists of a hollow tube shaped like a
probang. It is four feet long. The stomach extremity terminates in one hole to
allow of the passage of gruel. The upper extremity is of a tun-dish shape
10 6 inches deep and a top diameter of six inches. The instrument will be used
in conjunction with the ordinary sheep gag, and a piece of ordinary cane will
be passed down the instrument to clear the passage if necessary.

Dated this 15th day of September 1900

JAMES M. WHYTE.

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COMPLETE SPECIFICATION.

**“ An Improved Instrument or Appliance to be used in Drenching
Sheep and Lambs ”:**

I, JAMES MACKIE WHYTE, of Tenbury in the County of Worcester, Member
of the Royal College of Veterinary Surgeons. do hereby declare the nature of
20 this invention and in what manner the same is to be performed, to be particu-
larly described and ascertained in and by the following statement:—

This invention has for its object, to provide an instrument or appliance adapted
for use in drenching sheep and lambs or for safely administering drenches,
draughts and other medicinal liquids to such animals, without danger of choking
25 them and in such a manner as will permit of the operation of drenching or
administering medicines being performed much more readily and expeditiously
than hereto.

The said instrument consists of a flexible tube, having a perforated nozzle at
one end and a funnel or tun-dish at the other end. In general shape it some-
30 what resembles the appliance known in surgery as a probang, and the tube is of
such a length and diameter that when passed down the throat of a sheep, the
nozzle end lies within the stomach whilst the tun-dish end may be placed and held
by the hand of the operator in a position which allows of the drench or medicine
being poured therein, from which it passes down the tube and is delivered by the
35 perforated nozzle direct into the animals stomach without danger of choking it.

Figure 1 of the accompanying drawing represents an elevation of one form
of sheep-drenching instrument constructed according to my invention.

Figure 2 is a sectional view of the same.

Figure 3 represents a plan of the tun-dish end, into which the drench is poured.

40 Figure 4 is a cross sectional view of the perforated nozzle which delivers the
drench into the animals stomach.

[Price 8d.]

Improved Instrument or Appliance to be used in Drenching Sheep and Lambs.

Figure 5 is a view showing—in elevation—the particular form of sheep-gag which I propose to use in connection with my new drenching instrument. This figure shows the tube of the drencher (indicated in section) passing through the hole or aperture in the middle of the gag.

Figure 6 is a longitudinal section of the gag, also with the drencher tube 5 passed through the central hole.

Figure 7 is a view showing the drenching instrument and gag in use.

The same letters of reference indicate corresponding parts in the several figures of the drawing.

a is the flexible open-ended tube of the instrument, which is made in any 10 convenient size suitable for the particular purpose, and from any suitable material. *b* is the supply tun-dish, made of wood, vulcanite, or other suitable material, and attached to one end of the tube in any convenient manner, whilst *c* is the delivery nozzle attached to the other end of the tube and also made of 15 wood, bone, vulcanite or other material which admits of being readily kept clean. This nozzle is of a rounded or blunt contour so as not to injure the animals throat and stomach when in use, and has a hollow interior *c*¹, coinciding with the bore of the tube and a number of perforations *c*², in the walls, through which the drench or liquid poured into the tun-dish and run down the tube is delivered 20 into the stomach.

I do not confine myself to any particular form or size of these inlet and delivery fittings as the same may be modified in various ways to adapt the same to the particular purposes for which the instrument is designed.

The gag *d* which is used in connection with the drench is of the ordinary form, with ends *d*¹ to lie in the two corners of the mouth and a middle aperture *d*², 25 through which the nozzle and part of the tube of the instrument are passed.

In use, the gag is first placed in the mouth of the sheep or lamb to which the drench is to be administered. The nozzle end of the tube is then passed through the hole in the gag and down the throat of the animal until the operator judges the nozzle to lie within or approximate to its stomach. He then holds 30 the tun-dish in an upright or nearly upright position in one hand and with the other hand, pours into it the drench, which immediately runs down the tube and into the stomach without the least danger of choking the animal such as sometimes happens when the drench is poured into the mouth and throat in the ordinary way. 35

A drencher so constructed may be readily cleaned and any obstructions in the passage can be easily removed by thrusting a piece of ordinary cane or the like down the tube.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what 40 I claim is:—

First:—An instrument or appliance for use in administering drenches and medicinal or other liquids to sheep and lambs, consisting of a length of flexible tubing with an attached tun-dish or funnel at one end and having a delivery opening provided with a perforated nozzle at the other end; the said instrument, 45 being used substantially in the manner and for the purpose herein described and set forth.

Secondly:—The use in combination with a drenching instrument as referred to in the first claim, of a gag having a hole through which the tube of the drencher is passed substantially in the manner and for the purpose herein 50 described and set forth

Dated this 8th day of June 1901

JAMES MACKIE WHYTE

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